



Water-Data Report 2008

08091500 Paluxy River at Glen Rose, TX

Middle Brazos-Bosque Basin
Middle Brazos-Lake Whitney Subbasin

LOCATION.--Lat 32°13'53", long 97°46'37" referenced to North American Datum of 1927, Somervell County, TX, Hydrologic Unit 12060202, on left bank at downstream side of remaining pier of dismantled highway bridge, 500 ft upstream from bridge on U.S. Highway 67, 1.0 mi upstream from Cross Branch, 1.2 mi southwest of Glen Rose, and 5.1 mi upstream from mouth.

DRAINAGE AREA.--410 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1923 to Sept. 1925 (water year 1924 is not complete), June 1947 to current year. Prior to Oct. 1965, published as "Paluxy Creek at Glen Rose."

Period of Record-Water-Quality—

Chemical Data: Dec. 1961 to Sept. 1962.

Biochemical Data: Dec. 1961 to Sept. 1962.

REVISED RECORDS.--WSP 1392: 1949, 1952. WSP 2122: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 609.66 ft above NGVD of 1929. Oct. 27, 1923, to Sept. 30, 1925, nonrecording gage at bridge 1.8 mi downstream at datum 13.62 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1981, at least 10% of contributing drainage area has been regulated by 14 floodwater-retarding structures. These structures control runoff from 90.8 mi². No known diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1877, 27.2 ft Apr. 17, 1908, present site and datum (discharge, 59,000 ft³/s). Flood of May 21, 1922, reached a stage of 26.0 ft, present site and datum (discharge, 53,000 ft³/s). Flood in Nov. 1918 reached about the same stage as flood of May 21, 1922, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--(WATER YEARS, 1925, 1948-81).-- Maximum discharge, 50,000 ft³/s Oct. 4, 1959 (gage height, 25.40 ft); no flow at times.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	29	23	25	20	15	14	32	166	25	8.1	0.74	3.5
2	28	23	23	20	17	14	29	135	25	7.9	0.38	2.5
3	27	23	22	20	16	21	28	110	24	7.3	0.20	2.2
4	27	22	21	20	17	22	38	96	21	6.6	0.11	1.9
5	26	22	22	21	22	22	31	90	19	5.9	0.07	1.8
6	25	21	22	21	30	21	30	746	18	4.9	0.07	1.6
7	25	20	22	20	24	22	29	374	18	4.3	0.07	1.6
8	25	20	22	20	22	27	28	215	16	4.2	0.05	1.5
9	28	21	22	20	19	25	28	146	16	4.2	0.13	2.7
10	25	21	22	21	18	22	36	115	16	3.8	0.07	3.8
11	24	20	22	20	19	21	43	94	15	3.1	0.04	5.2
12	24	21	25	19	21	20	39	83	14	2.9	0.07	7.2
13	23	22	30	19	21	18	31	77	14	2.6	0.04	7.8
14	23	21	31	18	20	17	28	82	13	2.8	0.03	8.3
15	58	19	29	19	18	16	26	76	12	3.2	0.12	5.4
16	35	19	25	19	20	15	25	69	12	6.3	0.36	3.7
17	33	21	23	19	33	e15	26	65	11	6.6	0.78	2.9
18	29	22	23	19	31	39	34	60	e12	5.7	90	2.7
19	26	22	23	19	23	296	29	56	e13	4.6	30	2.8
20	25	23	23	18	22	166	28	50	13	3.7	23	2.7
21	23	22	23	19	21	96	27	47	13	2.9	40	2.6
22	26	20	22	19	19	70	25	46	12	2.6	25	2.2
23	26	20	21	19	18	57	314	42	11	2.2	15	1.9
24	25	24	22	19	17	48	2,710	39	11	2.1	10	2.1
25	24	39	21	22	17	43	950	39	11	1.9	7.4	1.8
26	23	39	22	23	15	40	506	35	10	1.6	5.6	1.7
27	22	35	22	22	14	38	759	34	9.0	1.5	4.8	1.6
28	22	29	23	21	14	36	488	34	8.7	1.2	3.9	1.5
29	23	27	22	20	14	33	311	31	11	0.89	3.2	1.4
30	23	25	21	18	---	33	213	29	9.5	1.1	6.0	1.3
31	23	---	21	16	---	32	---	27	---	1.1	5.0	---
Total	825	706	717	610	577	1,359	6,921	3,308	433.2	117.79	272.23	89.9
Mean	26.6	23.5	23.1	19.7	19.9	43.8	231	107	14.4	3.80	8.78	3.00
Max	58	39	31	23	33	296	2,710	746	25	8.1	90	8.3
Min	22	19	21	16	14	14	25	27	8.7	0.89	0.03	1.3
Ac-ft	1,640	1,400	1,420	1,210	1,140	2,700	13,730	6,560	859	234	540	178

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2008², BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	41.2	43.0	78.7	43.6	119	149	118	199	204	59.0	46.2	32.3
Max	424	211	1,382	380	933	654	828	975	1,350	751	721	323
(WY)	(1992)	(1992)	(1992)	(1992)	(1992)	(1998)	(1990)	(1990)	(2007)	(2007)	(1995)	(1986)
Min	0.00	1.05	3.47	4.70	5.49	7.54	6.46	3.34	7.50	1.18	0.00	0.00
(WY)	(2000)	(1984)	(1989)	(1984)	(1984)	(1986)	(1986)	(1988)	(1984)	(1984)	(1984)	(1984)

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	Calendar Year 2007	Water Year 2008	Water Years 1982 - 2008^Z
Annual total	98,163.0	15,936.12	
Annual mean	269	43.5	94.1
Highest annual mean			361
Lowest annual mean			6.24
Highest daily mean	9,240	Jun 27	17,200
Lowest daily mean	5.8	Mar 2	0.00
Annual seven-day minimum	5.9	Mar 1	0.06
Maximum peak flow		2,710	4,270
Maximum peak stage		Apr 24	Apr 24
Annual runoff (ac-ft)	194,700	31,610	32,300
10 percent exceeds	661	47	155
50 percent exceeds	35	21	19
90 percent exceeds	8.4	2.0	1.3

^Z Period of regulated streamflow.

